Customer:

Location:

Account #:

Installer:

Date:

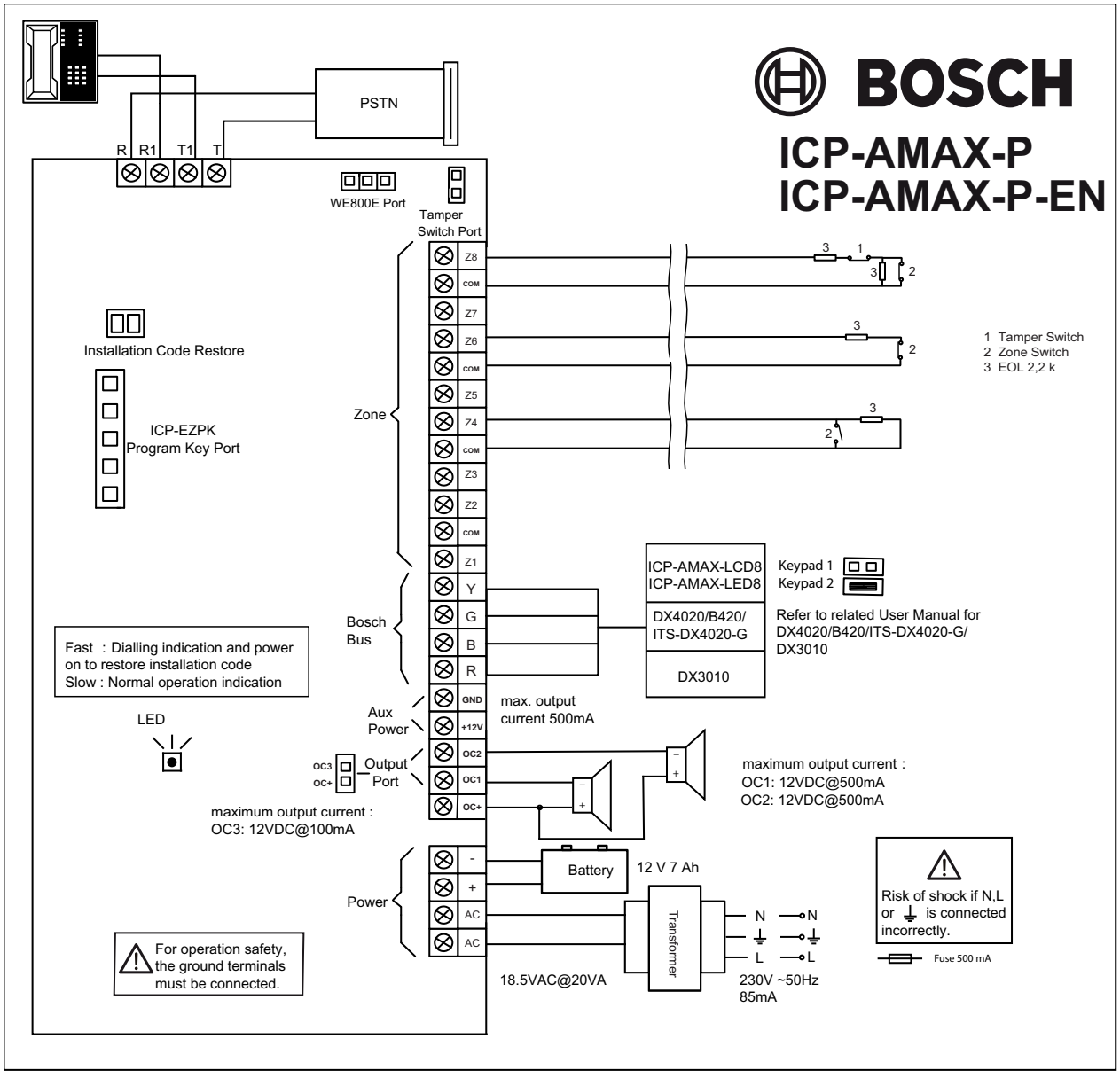
AMAX panel 2000 / AMAX panel 2000 EN

F.01U.241.128

BOSCH

en Quick Reference Guide

1 Wiring Diagram



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1 Summary

1.1 Introduction

Thank you for choosing the AMAX Panel 2000/ AMAX Panel 2000 EN alarm host. This is a flexible, reliable, convenien, and easy-to-use alarm system. This Quick reference guide is provided with the system to give basic information about the basic system wiring, components, and programming. As the system includes a large number of programmable functions and options, we suggest reading the complete installation instructions. The instructions introduce the system options, functions, and programming methods in detail.

1.2 Installation

This system must be installed by a qualified installer (please refer to installation instructions).

During installation and wiring, the alarm host power source must be switched-off to prevent equipment damage.After the alarm host wiring is completed, connect the AC power and backup batteries (*backup batteries must be connected).The power light on the keyboard will flash to show that the AC power is connected.

1.3 Programming

The programming and selections of this system are stored in non-volatile memory. Even when the electricity is totally disconnected, this memory retains all information, and this information can be modified many times if required.

1.4 Quick start

The following steps allow you to use the AMAX Panel 2000/AMAX Panel 2000 EN with factory default values. To become familiar with programming AMAX Panel 2000/AMAX Panel 2000 EN, read the information in.

1. Connect auxiliary equipment
2. After all wiring is complete, connect the AC plug pack and backup battery to the control panel. The **MAINS** indicator lights signify AC mains supply is connected.
   If any zone is unsealed when you power up the system, the corresponding zone indicator is lit constantly.

   Once you power up the panel, Date and Time has to be set.

   All Faults and Tamper conditions have to be reset.
3. Enter the default user code (2580) + (98) and press [#] to enable the installer's access.
4. Enter Date and Time. Refer to *Section 1.6 Setting date and time* on *Page 9*.
5. Enter the default Installer Code (1234) + (958) and press [#]. Two beeps sound and the **STAY** and **AWAY** indicators flash simultaneously to indicate that you have entered into installer's programming mode. Once you enter the installer's programming mode, you are automatically positioned at location 000, the first digit of IP address / Primary telephone number for Receiver 1.
6. Enter the IP address/Primary telephone number for Receiver 1 and then the port. Programming a 15 in the telephone number indicates the end of the dialing sequence.
7. Program any other required changes. Otherwise, factory default settings are used.
8. Enter command [9 6 0] and press [#] to store the programming data and exit from installer's programming mode, a beep sounds and the **STAY** and **AWAY** indicators are deactivated. The system is returned to the disarmed state and is ready for use.

9. Enter the default user code (2580) and (6) and press [#] to reset the panel.

1.5 Using the keyboard for programming

The system must be disarmed (no alarms) for programming. If there are alarms or the system is armed, please enter the user code for user code 1 (confirmation 2580), then press the [#] key (user code 1 is the factory preset user).
To enter installation and programming mode, please enter the installer password (confirmation 1234), then press the [#] key. It will beep twice, and the "STAY" and "AWAY" lights will flash simultaneously. This shows that programming mode has been activated. The keyboard indicator shows the programming data at address 000 (main telephone initial location).
To move to another programming location, please enter the address number, and press the [#] key. The data in the new address will be shown on the keyboard indicator (for example, if you enter [17#], the system will move to address 017, and this is the starting location of the receiver 1 subscriber identity).

To move to the next address, please press the [#] key. This will take you to the next location. The data in the next address will be shown on the keyboard indicator (for example, if your present location is 017, press the [#] key to take you to the next address, 018).
To go back one address, please press the [*] key (for example, if your present location is location 018, pressing the [*] key will take you back to address 017).
To change the data in the current address, please enter the new value (0–15), then press the [*] key. This will store the new data to this address (for example, if you enter the value [14*], the defense area 4 indicator and "power" indicator will illuminate showing that the new data value is 14).
To move to the next address, please press the [#] key. The data in the next address will be shown.
To save system programming data and leave installation mode, please enter [960#].The "STAY" and "AWAY" lights will go out. Save system programming data and returns to disarmed mode.
To return to installation mode without saving system programming data, please enter [959#].It will beep twice, the "STAY" and "AWAY" lights will go out. System programming data is not saved and return to disarmed mode.

Quick programming instructions are shown in the following Table:

Tasks	**Keyboard input**
Enter installation mode	[1 2 3 4 #]
Enter next address	[#]
Return to previous address	[*]
Set new data in address	[Data][*] (Data range:0–15)
Jump to other address	[Address number][#]
* Return to installation programming mode without saving system data	[9 5 9 #]
* Save system data and return to installation programming mode	[9 6 0 #]

Table 1.1 Quick Programming Instructions

Keyboard indicator light

Date Value	Area 1 indicator light	Area 2 indicator light	Area 3 indicator light	Area 4 indicator light	Area 5 indicator light	Area 6 indicator light	Area 7 indicator light	Area 8 indicator light	Power source indicator light
0									
1	X								
2		X							
3			X						
4				X					
5					X				
6						X			
7							X		
8								X	
9	X							X	
10									X
11	X								X
12		X							X
13			X						X
14				X					X
15					X				X

1.6 Setting date and time

This function allows the installer code holder to set or view the date and time

1. Enter your installer code +955 and press [#]. Two beeps sound, the STAY and AWAY indicators flash and date + time is shown in the format YYMMDD HHMM.
2. Enter the year, month, day, hour and minute in YY, MM, DD, HH, MM format and press [#]. Use 24:00 hour format when programming the hour of the day. Beep sound and the STAYand AWAY indicators are deactivated. If a long beep sounds, it indicates an erroneous entry of date and time.
3. If operation is not carried out within 240 seconds after entering the date and time setting interface, the system will automatically exit from the setting.

Example

To set the date and time for the 25th of December 2010 at 10:30PM, enter:
[Installer code + 955][#] break until time is shown [1 0 1 2 2 5 2 2 3 0][#]

1.7 System installer password reset

This system can restore the password to factory settings using the password reset:

1. Disconnect the AC power and backup battery from the alarm host.
2. Short circuit reset key (reset key is on the upper right corner next to the programmer key).
3. Connect the AC power to the alarm host.
4. Wait until the LED light on the host PCB flashes rapidly, then release the reset key.
5. The alarm host installer password has now been reset to the factory settings. Other programming parameters have not changed.

2 User and Installer Code Functions

User Code	Installer Code	Function		Description
•	•	0	#	Duress alarm
•	•	1	#	Siren test
•	•	2	#	Fault and Tamper analysis
•	•	3	#	View date and time
•	•	4	#	Walk test
•	•	5	#	Event memory recall
•	•	6	#	Reset panel/clear siren
•	•	7	#	Initiate a modem call
•	•	8	#	Send Test report
•	•	9	#	Bypass (inhibit)
•	•	96	#	Show Zone type
•		97	#	Overide all faults
•		98	# *	Enable=# / Disable=* installer code user's access
•	•	99	#	Change individual code
	•	955	#	Change/View date and time
	•	956	#	Add/delete a level 2 user
	•	956	#	Add/delete Remote Radio User Codes
	•	957	#	Change domestic phone numbers
	•	958	#	Enter Programming Mode
	•	959	#	Exits from installer’s programming mode without saving the programmed data.
	•	960	#	Exits from installer’s programming mode with saving the programmed data.
	•	961	#	Resets the control panel to factory defaults.
	•	962	#	Copies the control panel memory to the programming key.
	•	963	#	Copies the programming key data to the control panel memory.
	•	999	#	Displays the software version number or control panel type.
Default Pads on PCB				Default the control panel with the hardware

NOTICE!
Installer code is only active when enabled from user.

3 Fault and Tamper Description

Whenever a system fault or a tamper condition occurs, the FAULT or MAINS indicator flashes and the keypad beeps.

To enter fault and tamper condition analysis mode to determine a system fault or tamper condition:

1. Enter your Code and [2] and press [#] two beeps sound.The FAULT indicator remains lit and the STAY and AWAY indicators flash. The lit zone indicators indicate the type of fault or tamper condition that occurred.
2. For multi-level menu, enter the corresponding number to enter the submenu, press [0] key to return to the main menu.
3. To exit from Fault and Tamper Analysis Mode, press [#] . The STAY and AWAY indicators are extinguished and the FAULT indicator remains lit, and the keypad stops the beep.

When a new fault or tamper occurs, the FAULT indicator flashes again and the keypad beeps. The FAULT indicator gets extinguished once all faults are restored.

Zone Indicator

1	**Accessory Modules Fail**	
	1	Keypad 1 fail
	2	Keypad 2 fail
	3	DX 3010 Fail
	4	B420/DX 4020 /-G Fail
2	**Power Faults**	
	1	AC Fault
	2	Fault Battery
	3	Aux Power Supply Fault
	4	Bosch Option Bus Power Fault
	5	RF Power Fault
3	**Warning Device Failure List**	
	1	Warning Device 1 Disconnected
	2	Warning Device 1 Short
	3	Warning Device 2 Disconnected
	4	Warning Device 2 Short
4	**Telephone Line Fail**	
5	**Date and Time Fail**	
6	**Communications failure**	
	1	Communication Failure 1
	2	Communication Failure 2
	3	Communication Failure 3
	4	Communication Failure 4
7	**Tamper**	
	1	On board Tamper
	2	Keypad 1 Tamper
	3	Keypad 2 Tamper
	4	Keypad Lock out
	5	Sensor Tamper (Zone 1-8)
	6	Tamper Zone (Zone 1-8)
8	**External Fault**	

4 Programming sheets

4.1 Receiver programming

4.1.1 Receiver parameters

Report Options	Location	Default	
Telephone Number/IP Address and Port for Receiver 1	000-016	15	
Subscriber ID Number for Receiver 1	017-022	000000	
Transmission Format for Receiver 1(0=Not used, 1=Contact ID, 2=CFSK, 3=Bosch Network)	023	1 EN=1	
Anti-replay for Receiver 1 0=Disable,1=Enable	024	1	
Acknowledge Wait Time for Receiver 1 (05 – 99 seconds)	025-026	05	
Pulse Interval Time for Receiver 1(001 – 999 Minutes)	027-029	001	
Telephone Number/IP Address and Port for Receiver 2	030-046	15	
Subscriber ID Number for Receiver 2	047-052	000000	
Transmission Format for Receiver 2(0=Not used, 1=Contact ID, 2=CFSK, 3=Bosch Network)	053	1	
Anti-replay for Receiver 2 0=Disable, 1=Enable	054	1	
Acknowledge Wait Time for Receiver 2 (05 – 99 seconds)	055-056	05	
Pulse Interval Time for Receiver 2(001 – 999 Minutes)	057-059	001	
Telephone Number/IP Address and Port for Receiver 3	060-076	15	
Subscriber ID Number for Receiver 3	077-082	000000	
Transmission Format for Receiver 3 (0=Not used, 1=Contact ID, 2=CFSK, 3=Bosch Network)	083	1	
Anti-replay for Receiver 3 0=Disable, 1=Enable	084	1	
Acknowledge Wait Time for Receiver 3 (05 – 99 seconds)	085-086	05	
Pulse Interval Time for Receiver 3 (001 – 999 Minutes)	087-089	001	
Telephone Number/IP Address and Port for Receiver 4	090-106	15	
Subscriber ID Number for Receiver 4	107-112	000000	
Transmission Format for Receiver 4 (0=Not used, 1=Contact ID, 2=CFSK, 3=Bosch Network)	113	1	
Anti-replay for Receiver 4 0=Disable, 1=Enable	114	1	
Acknowledge Wait Time for Receiver 4 (05 – 99 seconds)	115-116	05	
Pulse Interval Time for Receiver 4 (001 – 999 Minutes)	117-119	001	

– IP address is programmed as 17 digits data code. Digit 1-12 is for receiver IP address, digit 13~17 is for communication port.

The dot does not need to be programmed. The IP address is combined by 4 units, each unit has 3 digits. If any unit is less than 3 digits, use 0 to fulfill the data in the higher bits. If the port number is less than 5 digits, use 0 to fulfill the data in the higher bits.

Example: For IP Address for receiver 128.73.168.7, communication port 7700, program as: 128 073 168 007 07700

NOTICE!
Programming option anti-replay, acknowledge wait time and pulse interval time are only used in Bosch network format.

4.1.2 Domestic programming

Address	120–135
Preset values	15 (if the first digit input is 15 this function is prohibited)

Digit	Program input keys	Digit	Program input keys
0	0	8	8
1	1	9	9
2	2	*	11
3	3	#	12
4	4	Wait 4 seconds	13
5	5	15	15
6	6		
7	7		

4.2 System Report Options Programming

System sends reports to Receiver 1-4 according to system status report options. The locations for the reports are 137-144.

4.2.1 Report Options

Location 137-144	Location	Default	
Zone Restore Report Options (Alarm restore, fault restore, bypass restore)	137	0	
Arm/Disarm report option in AWAY Mode	138	6	
Arm/Disarm report option in STAY Mode	139	6	
System Status Report Options (Zone fail, comm. fail, telephone line fail, AC fail, low battery...etc.)	140	6 EN=1/ 5/6/7	
Keypad panic report	141	0	
Keypad fire report	142	0	
Keypad medical report	143	0	
Test report options	144	6 EN=1/ 5/6/7	

Zone Status Reporting Options	
0	No zone status report allowed
1	Report to Receiver 1
2	Report to Receiver 2
3	Report to Receiver 3
4	Report to Receiver 4

Zone Status Reporting Options	
5	Report to Receiver 1,2,3,4
6	Report to destination 1 (2,3,4 backup)
7	Report to destination 1 (2 backup) and destination 3 (4 backup)

NOTICE!
The system sends no report when programmed to report to the receiver as Option 0.

4.2.2 Test Report Time Interval Setting

Location 145-150	
	Default
145-146=timer test report(1-99 hours)0=don't send timer test report	24 EN=1-24
147-148=Report time: Hours=0-23(else=don't send real time test report)	99
149-150=Report time: minutes=0~59(else=don't send real time test report)	99

4.3 System Functions Programming

4.3.1 Ring Count

Location 152	Location	Default	
0=Panel does not answer 1–15= Number of rings until panel answers	152	0	

4.3.2 Remote Programming/Control

Location 153	Location	Default	
0=Disable 1=Enable	153	1	

4.3.3 Call back Telephone Number

Location 154-169	Location	Default	
15 = telephone termination	154-169	15	

4.3.4 Exit Time

Location 170-172	Location	Default	
000-255 seconds	170-172	045	

4.3.5 Entry Time

Location 173-175	Location	Default	
000-255 seconds	173-175	045 EN=45	

4.3.6 Keypad Lockout

Location 179	Location	Default	
1 - 15= attempt times 0=no lockout	179	6 EN=10	

If an invalid code attempts more times than programmed, the keypad is locked out for 3 minutes.

4.3.7 Single Button STAY/AWAY ARM

Location 180	Location	Default	
0=Disable 1=Enable	180	1 EN=0	

4.3.8 Remote Arm by Software/Telephone

Location 181	Location	Default	
0=Disable 1=Enable	181	1 EN=0	

4.3.9 Arm by Keyfob

Location 182	Location	Default	
0=Disable 1=Enable	182	1 EN=0	

4.3.10 Force Arm as system is in trouble

Location 183	Location	Default	
0=Disable 1=Enable	183	1 EN=0	

4.3.11 Quick Emergency Alarm

Location 184	Location	Default	
0=Disable 1=Enable	184	1	

4.3.12 Event Recall

Location 182	Location	Default	
0=Disable 1=Enable	185	1	

4.3.13 OC1/Warning Device 1 Monitor

Location 186	Location	Default	
0=Disable 1=Enable	186	0 EN=1	

4.3.14 OC2/Warning Device 2 Monitor

Location 187	Location	Default	
0=Disable 1=Enable	187	0 EN=1	

4.3.15 Phone line Monitor

Location 188	Location	Default	
0=Disable 1=Enable	188	0 EN=1	

4.3.16 AC Fault Detect time

Location 189-190	Location	Default	
0-60 Minutes	189-190	10	

4.3.17 Battery Detect time

Location 191	Location	Default	
1-15 min	191	1 EN=15	

4.3.18 Event Record Count Per Set/Unset Period

Location 192	Location	Default	
3-10	192	3	

4.3.19 Beep for Warning Devices

Location 193	Location	Default	
0=Disable 1=Enable	193	0	

4.4 Zone Programming

Location 210-289			
Zone	**Location**	**Default**	
Zone #01			
Zone Type (Refer to zone type option)	210	3	
Zone Bypass (Disable=0, Enable=1)	211	1	
Forced Arming (Disable=0, Enable=1)	212	1 EN=0	
Silent Alarm (Enable=1, Disable=0)	213	0 EN=0	
Zone alarm lock out time (Disable=0, 1 times=1, 3 times=2, 6 times=3, alarm duration=4)	214	0	
Support Detector Tamper (Disable=0, Enable=1)	215	1	
Zone alarm report (Refer to zone report option)	216	6 EN=1/ 5/6/7	
Zone Chime Mode (Enable=1, Disable=0)	217	0	
Reserved	218-219	0	
Zone #02			
Zone Type (Refer to zone type option)	220	1	
Zone Bypass (Disable=0, Enable=1)	221	1	
Forced Arming (Disable=0, Enable=1)	222	1 EN=0	
Silent Alarm (Enable=1, Disable=0)	223	0 EN=0	
Zone alarm lock out time (disable=0, 1 times=1, 3 times=2, 6 times=3, alarm duration=3)	224	0	
Support Detector Tamper (Disable=0, Enable=1)	225	1	
Zone alarm report (Refer to zone report option)	226	6 EN=1/ 5/6/7	
Zone Chime Mode (Enable=1, Disable=0)	227	0	
Reserved	228-229	0	

Zone #03			
Zone Type (Refer to zone type option)	230	1	
Zone Bypass (Disable=0, Enable=1)	231	1	
Forced Arming (Disable=0, Enable=1)	232	1 EN=0	
Silent Alarm (Enable=1, Disable=0)	233	0 EN=0	
Zone alarm lock out time (disable=0, 1 times=1, 3 times=2, 6 times=3, alarm duration=4)	234	0 EN=4	
Support Detector Tamper (Disable=0, Enable=1)	235	1	
Zone alarm report (Refer to zone report option)	236	6 EN=1/ 5/6/7	
Zone Chime Mode (Enable=1, Disable=0)	237	0	
Reserved	238-239	0	
Zone #04			
Zone Type (Refer to zone type option)	240	1	
Zone Bypass (Disable=0, Enable=1)	241	1	
Forced Arming (Disable=0, Enable=1)	242	1 EN=0	
Silent Alarm (Enable=1, Disable=0)	243	0 EN=0	
Zone alarm lock out time (disable=0, 1 times=1, 3 times=2, 6 times=3, alarm duration=4)	244	0	
Support Detector Tamper (Disable=0, Enable=1)	245	1	
Zone alarm report (Refer to zone report option)	246	6 EN=1/ 5/6/7	
Zone Chime Mode (Enable=1, Disable=0)	247	0	
Reserved	248-249	0	
Zone #05			
Zone Type (Refer to zone type option)	250	1	
Zone Bypass (Disable=0, Enable=1)	251	1	
Forced Arming (Disable=0, Enable=1)	252	1 EN=0	
Silent Alarm (Enable=1, Disable=0)	253	0 EN=0	
Zone alarm lock out time (disable=0, 1 times=1, 3 times=2, 6 times=3, alarm duration=4)	254	0	
Support Detector Tamper (Disable=0, Enable=1)	255	1	
Zone alarm report (Refer to zone report option)	256	6 EN=1/ 5/6/7	
Zone Chime Mode (Enable=1, Disable=0)	257	0	
Reserved	258-259	0	
Zone #06			
Zone Type (Refer to zone type option)	260	1	
Zone Bypass (Disable=0, Enable=1))	261	1	
Forced Arming (Disable=0, Enable=1)	262	1 EN=0	
Silent Alarm (Enable=1, Disable=0)	263	0 EN=0	
Zone alarm lock out time (disable=0, 1 times=1, 3 times=2, 6 times=3, alarm duration=4)	264	0	
Support Detector Tamper (Disable=0, Enable=1)	265	1	

Zone alarm report (Refer to zone report option)	266	6 EN=1/ 5/6/7	
Zone Chime Mode (Enable=1, Disable=0)	267	0	
Reserved	268-269	0	
Zone #07			
Zone Type (Refer to zone type option)	270	1	
Zone Bypass (Disable=0, Enable=1)	271	1	
Forced Arming (Disable=0, Eanble=1)	272	1 EN=0	
Silent Alarm (Enable=1, Disable=0)	273	0 EN=0	
Zone alarm lock out time (disable=0, 1 times=1, 3 times=2, 6 times=3, alarm duration=4)	274	0	
Support Detector Tamper (Disable=0, Enable=1)	275	1	
Zone alarm report(Refer to zone report option)	276	6 EN=1/ 5/6/7	
Zone Chime Mode (Enable=1, Disable=0)	277	0	
Reserved	278-279	0	
Zone #08			
Zone Type (Refer to zone type option)	280	1	
Zone Bypass (Disable=0, Enable=1)	281	1	
Forced Arming (Disable=0, Enable=1)	282	1 EN=0	
Silent Alarm (Enable=1, Disable=0)	283	0 EN=0	
Zone alarm lock out time (Disable=0, 1 times=1, 3 times=2, 6 times=3, alarm duration=4)	284	0	
Support Detector Tamper (Disable=0, Enable=1)	285	1	
Zone alarm report(Refer to zone report option)	286	6 EN=1/ 5/6/7	
Zone Chime Mode (Enable=1, Disable=0)	287	0	
Reserved	288-289	0	

Zone Types

Zone Type	Description
0	Zone not used
1	Instant
2	Interior Instant
3	Delay
4	Interior Delay
5	Follower
6	Interior Follower
7	24-Hour
8	Tamper
9	Fire
10	External Fault
11	Bolt Contact

Zone Type	Description
12	Key Switch Toggle
13	Key Switch on/off

4.5 Output Programming

4.5.1 Keypad Buzzer

Location 370	Location	Default	
Keypad beeps when siren on 1=Disable, 1=Enable	370	0	

4.5.2 Warning Device 1/ OC1 Output

Output 1	Location	Default	
Event Type (fixed value)		3 EN	
Polarity Mode (0=Steady, 1=Pulse)	371	0 EN=0	
Output Duration (001-999sec/000=on)	372-374	000 EN=180	

NOTICE!
When the triggered zone is programmed as silent zone, keypad output and OC1 output do not response. Other outputs are as normal.

4.5.3 Warning Device 2 / OC2 Output

Output 2	Location	Default	
Event Type (Refer to output events option)	375	3 EN=3	
Polarity Mode (0=Steady, 1=Pulse)	376	0 EN=0	
Output Duration (001-999sec/000=on)	377-379	000 EN=180	

4.5.4 Optional Relay Output / OC3

Optional Relay Output			
Event Type (Refer to output events option)	380	0	
Polarity Mode (0=Steady, 1=Pulse)	381	0	
Output Duration (001-999sec/000=on)	382-384	030	

4.5.5 DX3010 Output

Location	Location	Default	
Relay Output 1			
Event Type (Refer to output events option)	385	0	
Polarity Mode (0=Steady, 1=Pulse)	386	0	
Output Duration (001-999sec/000=on)	387-389	030	
Relay Output 2			
Event Type (Refer to output events option)	390	0	
Polarity Mode (0=Steady, 1=Pulse)	391	0	
Output Duration (001-999sec/000=on)	392-394	030	

Relay Output 3			
Event Type (Refer to output events option)	395	0	
Polarity Mode (0=Steady, 1=Pulse)	396	0	
Output Duration (001-999sec/000=on)	397-399	030	
Relay Output 4			
Event Type (Refer to output events option)	400	0	
Polarity Mode (0=Steady, 1=Pulse)	401	0	
Output Duration (001-999sec/000=on)	402-404	030	
Relay Output 5			
Event Type (Refer to output events option)	405	0	
Polarity Mode (0=Steady, 1=Pulse)	406	0	
Output Duration (001-999sec/000=on)	407-409	030	
Relay Output 6			
Event Type (Refer to output events option)	410	0	
Polarity Mode (0=Steady, 1=Pulse)	411	0	
Output Duration (001-999sec/000=on)	412-414	030	
Relay Output 7			
Event Type (Refer to output events option)	415	0	
Polarity Mode (0=Steady, 1=Pulse)	416	0	
Output Duration (001-999sec/000=on)	417-419	030	
Relay Output 8			
Event Type (Refer to output events option)	420	0	
Polarity Mode (0=Steady, 1=Pulse)	421	0	
Output Duration (001-999sec/000=on)	422-424	030	

Set all 8 event type options to 0 if you do not use DX3010 relay module.

Event Type	Description
0	No output activate for the events
1	System Disarmed
2	System Armed
3	System Alarm
4	Entry/Exit Delay Warning
5	Telephone Line Fail
6	AC Lost
7	Battery Low
8	RF Power Fault
9	TAMPER
10	External Fault
11	All Faults
12	Away armed
13	Stay armed
14	Reset
15	24h Alarm

Table 4.1 Output Events Option

4.6 Installer/User Code Programming

Each installer/user code unit contains up to 4 digits. Each digit range is 0-9. Default first digit as data 15 means Not Used. Other data are not permitted.

4.6.1 Installer code #0

Location 425-428	Location	Default	
	425	1	
	426	2	
	427	3	
	428	4	

Installer Code is used to program the system.

4.6.2 User Codes

Location 430-509	Location	Default	
User Code #01	430	2	
	431	5	
	432	8	
	433	0	
User #02	435-438	15	
User #03	440-444	15	
User #04	445-449	15	
User #05	450-454	15	
User #06	455-459	15	
User #07	460-464	15	
User #08	465-469	15	
RF User #09	470-474	15 EN=15	
RF User #10	475-479	15 EN=15	
RF User #11	480-484	15 EN=15	
RF User #12	485-489	15 EN=15	
RF User #13	490-494	15 EN=15	
RF User #14	495-499	15 EN=15	
RF User #15	500-504	15 EN=15	
RF User #16	505-509	15 EN=15	

5 Specification

Panel	
Enclosure :	
Dimensions (HxWxD):	– 260mm x 280mm x 83,5mm
Weight:	– 1950g
Environmental Considerations:	
Relative Humidity:	– 10%-95%
Operating Temperature:	– -10°C - +55°C
Supervised Zones:	
Onboard:	
Z1 - Z8 COM	– 8 Single or dual end-of-line (EOL 2,2KΩ) tamper point support
P8 Tamper	– Enclosure tamper input (does not reduce point capacity)
Programmable Outputs (PO):	
Onboard:	
OC 1	– supervised output max 500mA
OC 2	– supervised output max 500mA
P7 Relay output	– max 100mA
Auxiliary module (DX3010):	
Relay 1-8	– Contacts rated 5A at 28VDC
Cable requirements:	– Unshielded and shielded 0,6-0,8mm
Number of...	
Users:	– 16 (8 + 8Keyfob)
Key Fobs:	– 8
Events:	– 254 history events, stamped with time and date
	– 254 EN history events, stamped with time and date
Pin Code variations	– 10000
DX 3010:	– 1
B 420 or DX 4020 or DX 40206	– 1
Keypads:	– 2
Power:	
Power Supply Type:	– A
Transformer:	– 230V Input/18VAC 20VA Fuse=500mA
AC Input:	– AC Input Voltage: 195 VAC to 253 VAC
	– Line Voltage Frequency: 50 Hz
DC Output:	– maximum current for all components 1100mA
	– maximum current for all components 550mA (recharge Batt 80% in 72h)
Aux (+12V/GND) Output:	– Nominal Output Voltage under AC line input: 13,5 VDC +3% / -5%

	– Output Voltage Range under AC line input: 12,82 VDC to 13,9 VDC
	– 500mA maximum
	– Vpp (max) 675mV
Option Bus:	– Nominal Output Voltage under AC line input: 13,5 VDC +3% / -5%
	– Output Voltage Range under AC line input: 12,82 VDC to 13,9 VDC
	– 500mA maximum
RF Power Output	– 5VDC / 100mA maximum
Panel PCB	– Quiescent current maximum 100mA
Battery:	– D126 (12V/7 Ah) sealed, lead acid rechargeable
	– Low battery condition is below 11,8 VDC
	– Minimum battery condition is 10,8VDC
	– Maximum auxiliary current to recharge standby battery to 80% within 72h:
	– 12 V/7 Ah Battery: 550 mA
Certification:	– EN 50131-3 Grade-2 Env-II

Keypads:	
IUI-AMAX-LED8 (8Zone LED Keypad)	
Relative Humidity:	– 10%-95%
Operating Temperature:	– -10°C - +55°C
Input Voltage range:	– 10VDC - 14VDC
Current Consumption	– standby 24mA
	– maximum 50mA
Cable requirements:	– four wire, unshielded and shielded 0,6-0,8mm
	– maximum length 150m
EN type:	– B
IUI-AMAX-LCD8 (8Zone LCD Keypad)	
Relative Humidity:	– 10%-95%
Operating Temperature:	– -10°C - +55°C
Input Voltage range:	– 10VDC - 14VDC
Current Consumption	– standby 18mA
	– maximum 60mA
Cable requirements:	– four wire, unshielded and shielded 0,6-0,8mm
	– maximum length 150m
EN type:	– B

6 FAQs

Issues	Causes and solutions
After turning on the unit, there is no response for a defense zone monitor for a short time.	– In order to ensure regular operation, after power is turned on, the system needs to stabilize for one minute
After turning the unit on, the keyboard does not show.	– Check whether the AC power supply and battery fuse are working correctly – Check the keyboard main cable RBGY connection
Keyboard operation does not work (pressing any key produces an error sound).	– Check the keyboard main cable RBGY connection – After many password input errors, the keyboard locks. Wait for three minutes, and then try the operation again – If two keyboards are used, there is a jump error – If two keyboards are used, it is necessary to wait for 30 seconds before operating the other keyboard
After turning the unit on, cannot enter programming mode.	– The system is in alarm status. If: the disarm switch and 24 hour defense zone are not ready – The system is alarmed. Programming mode must be set while disarmed
Host LED status light does not display.	– If AC power source and backup batteries are not working correctly; please check the power source – Motherboard is damaged. Please replace the motherboard
Defense zone light stays illuminated.	– Check whether the defense zone cable is correctly connected – Check whether the detector functions normally – The end of the defense zone line should be correctly connected to the detector terminal
Error light stays lit/ flashes.	– Date and time are not set – Battery is not connected or backup battery power is below 12 V – No alarm signal received. If the user does not connect the alarm signal, a 1K resistance can be substituted – Telephone number is not set correctly – Telephone network is not connected – Disarm switch is not connected. If the user does not use the disarm switch, it is necessary to connect the short circuit wire – Programming should be carried out using an external module, in fact the external module is not connected, for example: DX3010 CHI, DX4020 or DX4020G.For specific situations consult the programming handbook
AC power fuse is burnt out.	– Check the transfer 18 V connector is working normally
Auxiliary power source overcurrent protection.	– Check the 12 V auxiliary power source connection is running normally – Check that the auxiliary power supply equipment is not exceeding the 900 mA motherboard maximum. If the maximum is exceeded, peripheral equipment must use external power

After an auxiliary power source short circuit, system cannot be restored.	– Restart the AC power supply and battery
After changing the battery, a battery error still shows.	– When the system is armed or every 4 hours, it checks the battery, so it may be necessary to wait before the battery error is cleared – New batteries may require charging before they reach 12 V
When there is an alarm, the system does not dial.	– Check whether the communications were programmed to disable the dial function (telephone number and communication format must be programmed)
Cannot remotely alarm.	– Check whether this function has been programmed (address 152 cannot be 0)
Central software cannot be remotely programmed and controlled.	– Check whether this function has been programmed (address 152 and 153 cannot be 0)
Using PSTN/personal telephone alarm the communication is occasionally incorrect.	– The telephone network uses an extension system; it is necessary to add a delayed dial – The telephone network also supports ADSL; system must be connected after the ADSL wave filter

Glossary

A

Alarm	Event that is configured as an alarm. This is a particular situation (motion detected, doorbell rung, signal lost, etc.) that requires immediate attention. An alarm can include live video, playback video, an action plan, or a map.

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